



Office for Schools

5TH GRADE SCIENCE EXIT EXPECTATION BOXES

<u>EARTH SCIENCE</u>	<u>PHYSICAL SCIENCE</u>
<ul style="list-style-type: none"> ▪ WEATHER <ul style="list-style-type: none"> ○ <i>Observe that weather instruments measure temperature, air pressure, wind direction and speed, and precipitation</i> ○ <i>Use various weather instruments to collect data and make predictions</i> ○ <i>Illustrate that weather maps use symbols to display weather data</i> ▪ SPACE <ul style="list-style-type: none"> ○ <i>Understand objects in the solar system are in constant motion caused by natural forces which impact many changes we see in our world</i> ○ <i>Identify constellations and their position in relation to the Earth</i> ○ <i>Know that planets look like stars, but over time they appear to wander among the constellations</i> ▪ EARTH'S STRUCTURE/COMPOSITION <ul style="list-style-type: none"> ○ <i>Explain how metamorphic rocks are formed in the Earth's crust by pressure, heat, and water</i> ○ <i>Investigate how sedimentary rocks form when sediment settles and becomes compacted</i> ○ <i>Recognize how igneous rocks are created when molten rock cools and hardens</i> 	<ul style="list-style-type: none"> ▪ SOUND AND LIGHT <ul style="list-style-type: none"> ○ <i>Investigate that light travels in straight paths</i> ○ <i>Discover that white light is composed of colors that can be revealed and separated using a prism</i> ○ <i>Identify reflection, refraction, and absorption as properties of light</i> ○ <i>Observe that concave and convex lenses can change the path of light</i> ○ <i>Investigate how light is a form of energy</i> ○ <i>Explain how people use light in many ways</i> ○ <i>Explain how sound is caused by vibrations</i> ○ <i>Discover that pitch is affected by frequency</i> ○ <i>Infer that sound travels in waves</i> ▪ MATTER <ul style="list-style-type: none"> ○ <i>Investigate substances that dissolve to form solutions</i> ▪ FORCES/MOTION AND ENERGY <ul style="list-style-type: none"> ○ <i>Investigate how changing the weight, size, shape, or material of an object will change the way it moves through the air</i> ○ <i>Demonstrate the motion of an object can be described by tracing and measuring its position over time</i> ○ <i>Explain that when a force is applied to an object, the object starts moving, stops moving, speeds up, slows down, or goes in a different direction</i> ○ <i>Identify the relationship between the strength of a force and its effect on an object</i> ○ <i>Identify conductors and their affect on the movement of heat</i> ○ <i>Observe that objects that travel through the air are acted upon by the forces of thrust, lift, drag, and gravity</i> ○ <i>Investigate that motors can be powered by electrical energy</i> ▪ ELECTRICITY/MAGNETISM <ul style="list-style-type: none"> ○ <i>Investigate magnetic attraction to steel and iron materials</i> ○ <i>Know that static electricity produces positive and negative charges: like charges repel, opposites attract</i>



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LIFE SCIENCE

- ANIMALS
 - *Behavior*
 - Know that an animal's behavior is influenced by internal cues and external cues
- PLANTS
 - *Characteristics*
 - Recognize how plants capture energy from the sun to produce food through photosynthesis
 - *Adaptations*
 - Know that plant behavior is influenced by internal cues and external cues
 - Know that plants have senses that help them to detect these cues
- ENVIRONMENT
 - *Adaptations*
 - Describe how organisms' adaptive characteristics affect their survival
 - *Interaction of Living Things*
 - Know that all organisms cause changes in their environments and these changes can be beneficial or detrimental
 - Know that an organism's patterns of behavior are related to the nature of that organism's environment
 - Explain that energy is transferred through food chains
 - State that a food web is a number of connected food chains
- HUMAN BODY
 - *Explain that the skeletal, muscular, circulatory, and respiratory systems interact with one another and perform specific functions*